

WHAT IS CLAIMED IS:

1. An electronic apparatus to which a plurality of batteries are detachably mounted, comprising:

5 a removal requirement receipt section for receiving a removal requirement for a part of the mounted batteries;

10 a processing ability determination section responsive to the removal requirement for a battery from said removal requirement receipt section for determining whether a supplying possible electric power from the remaining batteries is an electric power capable of maintaining a processing ability or an electric power which needs to lower the processing ability; and

15 a processing ability control section for lowering the processing ability in accordance with a decision from said processing ability determination section that the electric power needs to lower the processing ability.

20 2. An electronic apparatus to which a plurality of batteries are detachably mounted, comprising:

a removal requirement receipt section for receiving a removal requirement for a part of the mounted batteries; and

25 a processing ability control section responsive to the removal requirement for a battery from said removal requirement receipt section for lowering a processing

ability.

3. An electronic apparatus to which a plurality of batteries are detachably mounted, comprising:

5 a mounting and removal detection section for detecting mounting and removal of batteries; and a processing ability control section responsive to a detection of a removal of a battery by said mounting and removal detection section for lowering a processing ability.

10 4. An electronic apparatus according to claim 1, in which said electronic apparatus has a portion receiving a clock and operative in synchronism with the clock while consuming an electronic power according to a repetitive frequency of the clock,

15 wherein said processing ability control section changes over the frequency of the clock to control the processing ability.

20 5. An electronic apparatus according to claim 2, in which said electronic apparatus has a portion receiving a clock and operative in synchronism with the clock while consuming an electronic power according to a repetitive frequency of the clock,

25 wherein said processing ability control section changes over the frequency of the clock to control the processing ability.

6. An electronic apparatus according to claim 3,
in which said electronic apparatus has a portion receiving
a clock and operative in synchronism with the clock while
5 consuming an electronic power according to a repetitive
frequency of the clock,

wherein said processing ability control section
changes over the frequency of the clock to control the
processing ability.

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7. An electronic apparatus according to claim 1,
wherein said processing ability determination section
receives the removal requirement for a battery from said
removal requirement receipt section and determines whether
15 an electric power supplying ability is insufficient with
only the remaining batteries, even if the processing
ability is lowered by said processing ability control
section, and

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said electronic apparatus further comprises a
removal acceptance display section for displaying inhibit
or acceptance of the removal of a battery according as said
processing ability determination section determines whether
an electric power supplying ability is insufficient with
only the remaining batteries, even if the processing
25 ability is lowered by said processing ability control
section.

8. An electronic apparatus according to claim 2,
further comprising:

5 a processing ability determination section
responsive to the removal requirement for a battery from
said removal requirement receipt section for determining
whether an electric power supplying ability is insufficient
with only the remaining batteries, even if the processing
ability is lowered by said processing ability control
section, and

10 a removal acceptance display section for
displaying inhibit or acceptance of the removal of a
battery according as said processing ability determination
section determines whether an electric power supplying
ability is insufficient with only the remaining batteries,
15 even if the processing ability is lowered by said
processing ability control section.

9. An electronic apparatus according to claim 1,
further comprising a residual electric power monitor
20 section for monitoring a residual electric power of the
mounted batteries.

10. An electronic apparatus according to claim 2,
further comprising a residual electric power monitor
25 section for monitoring a residual electric power of the
mounted batteries.

11. An electronic apparatus according to claim 9,
wherein said residual electric power monitor section
measures voltage and supplying current of the mounted
batteries and determines a residual electric power of the
5 batteries through an arithmetic operation.

12. An electronic apparatus according to claim 10,
wherein said residual electric power monitor section
measures voltage and supplying current of the mounted
10 batteries and determines a residual electric power of the
batteries through an arithmetic operation.

13. An electronic apparatus according to claim 1,
wherein each of said batteries is a chargeable secondary
15 battery provided in a battery pack, and a plurality of such
battery packs are capable of being mounted on said
electronic apparatus.

14. An electronic apparatus according to claim 2,
20 wherein each of said batteries is a chargeable secondary
battery provided in a battery pack, and a plurality of such
battery packs are capable of being mounted on said
electronic apparatus.

25 15. An electronic apparatus according to claim 3,
wherein each of said batteries is a chargeable secondary
battery provided in a battery pack, and a plurality of such

battery packs are capable of being mounted on said electronic apparatus.

16. An electronic apparatus according to claim 1,
5 wherein each of said batteries is a battery provided in a battery pack, a plurality of such battery packs are capable of being mounted on said electronic apparatus, and each of said battery packs has a memory for storing a residual electric power of a battery of an associated battery pack.

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17. An electronic apparatus according to claim 2,
wherein each of said batteries is a battery provided in a battery pack, a plurality of such battery packs are capable of being mounted on said electronic apparatus, and each of 15 said battery packs has a memory for storing a residual electric power of a battery of an associated battery pack.

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18. An electronic apparatus according to claim 9,
wherein each of said batteries is a battery provided in a 20 battery pack, a plurality of such battery packs are capable of being mounted on said electronic apparatus, and each of said battery packs has a memory for storing an association between voltage and supplying current of an associated battery and a residual electric power of the battery, and
25 wherein said residual electric power monitor section measures voltage and supplying current of the mounted batteries and determines a residual electric power

of the batteries referring to said memories.

19. An electronic apparatus according to claim 10,
wherein each of said batteries is a battery provided in a
5 battery pack, a plurality of such battery packs are capable
of being mounted on said electronic apparatus, and each of
said battery packs has a memory for storing an association
between voltage and supplying current of an associated
battery and a residual electric power of the battery, and

10 wherein said residual electric power monitor
section measures voltage and supplying current of the
mounted batteries and determines a residual electric power
of the batteries referring to said memories.

15 20. An electronic apparatus according to claim 11,
wherein each of said batteries is a battery provided in a
battery pack, a plurality of such battery packs are capable
of being mounted on said electronic apparatus, and each of
said battery packs has a memory for storing an association
20 between voltage and supplying current of an associated
battery and a residual electric power of the battery, and

wherein said residual electric power monitor
section measures voltage and supplying current of the
mounted batteries and determines a residual electric power
25 of the batteries referring to said memories.

21. An electronic apparatus according to claim 12,

wherein each of said batteries is a battery provided in a
battery pack, a plurality of such battery packs are capable
of being mounted on said electronic apparatus, and each of
said battery packs has a memory for storing an association
5 between voltage and supplying current of an associated
battery and a residual electric power of the battery, and
wherein said residual electric power monitor
section measures voltage and supplying current of the
mounted batteries and determines a residual electric power
10 of the batteries referring to said memories.

22. An electronic apparatus according to claim 1,
wherein each of said batteries is a battery provided in a
battery pack, a plurality of such battery packs are capable
15 of being mounted on said electronic apparatus, and each of
said battery packs has a memory for storing an association
between a residual electric power of an associated battery
and a maximum chargeable current, and

wherein said processing ability determination
20 section performs a determination referring to said memories.

23. An electronic apparatus according to claim 7,
wherein each of said batteries is a battery provided in a
battery pack, a plurality of such battery packs are capable
25 of being mounted on said electronic apparatus, and each of
said battery packs has a memory for storing an association
between a residual electric power of an associated battery

and a maximum chargeable current, and
wherein said processing ability determination
section performs a determination referring to said memories.

5 24. An electronic apparatus according to claim 8,
wherein each of said batteries is a battery provided in a
battery pack, a plurality of such battery packs are capable
of being mounted on said electronic apparatus, and each of
said battery packs has a memory for storing an association
10 between a residual electric power of an associated battery
and a maximum chargeable current, and

 wherein said processing ability determination
section performs a determination referring to said memories.

15 25. A processing ability alteration instruction
apparatus for instructing an alteration of a processing
ability to an electronic apparatus to which a plurality of
batteries are detachably mounted, comprising:

20 a removal requirement receipt section for
receiving a removal requirement for a part of the batteries
mounted on said electronic apparatus;

 a processing ability determination section
responsive to the removal requirement for a battery from
said removal requirement receipt section for determining
25 whether a supplying possible electric power from the
remaining batteries only is an electric power capable of
maintaining a processing ability or an electric power which

needs to lower the processing ability; and
a processing ability alteration instruction
section for instructing said electronic apparatus to lower
the processing ability in accordance with a decision from
5 said processing ability determination section that the
electric power needs to lower the processing ability.

26. A processing ability alteration instruction
apparatus for instructing an alteration of a processing
10 ability to an electronic apparatus to which a plurality of
batteries are detachably mounted, comprising:
a removal requirement receipt section for
receiving a removal requirement for a part of the batteries
mounted on said electronic apparatus; and

15 a processing ability alteration instruction
section responsive to the removal requirement for a battery
from said removal requirement receipt section for
instructing said electronic apparatus to lower the
processing ability.

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27. A processing ability alteration instruction
apparatus for instructing an alteration of a processing
ability to an electronic apparatus to which a plurality of
batteries are detachably mounted, comprising:
a mounting and removal detection section for

25 detecting mounting and removal of batteries on and from
said electronic apparatus; and

5 a processing ability alteration instruction
section responsive to a detection of a removal of a battery
by said mounting and removal detection section for
instructing said electronic apparatus to lower the
processing ability.

10 28. A processing ability alteration instruction
apparatus according to claim 25, wherein said processing
ability determination section receives the removal
requirement for a battery from said removal requirement
receipt section and determines whether an electric power
supplying ability is insufficient with only the remaining
batteries, even if the processing ability of said
electronic apparatus is lowered, and

15 15 said processing ability alteration instruction
apparatus further comprises a removal acceptance display
section for displaying inhibit or acceptance of the removal
of a battery according as said processing ability
determination section determines whether an electric power
20 supplying ability is insufficient with only the remaining
batteries, even if the processing ability is lowered.

25 29. A processing ability alteration instruction
apparatus according to claim 26, further comprising:
 a processing ability determination section
 responsive to the removal requirement for a battery from
 said removal requirement receipt section for determining

whether an electric power supplying ability is insufficient with only the remaining batteries, even if the processing ability of said electronic apparatus is lowered, and

a removal acceptance display section for

5 displaying inhibit or acceptance of the removal of a battery according as said processing ability determination section determines whether an electric power supplying ability is insufficient with only the remaining batteries, even if the processing ability of said electronic apparatus
10 is lowered.

30. A processing ability alteration instruction apparatus according to claim 25, further comprising a residual electric power monitor section for monitoring a
15 residual electric power of the mounted batteries.

31. A processing ability alteration instruction apparatus according to claim 26, further comprising a residual electric power monitor section for monitoring a
20 residual electric power of the mounted batteries.

32. A processing ability alteration instruction apparatus according to claim 30, wherein said residual electric power monitor section measures voltage and
25 supplying current of the mounted batteries and determines a residual electric power of the batteries through an arithmetic operation.

33. A processing ability alteration instruction apparatus according to claim 31, wherein said residual electric power monitor section measures voltage and supplying current of the mounted batteries and determines a residual electric power of the batteries through an arithmetic operation.

34. A processing ability alteration instruction apparatus according to claim 25, wherein each of said batteries is a battery provided in a battery pack, a plurality of such battery packs are capable of being mounted on said electronic apparatus, and each of said battery packs has a memory for storing a residual electric power of a battery of an associated battery pack.

35. A processing ability alteration instruction apparatus according to claim 26, wherein each of said batteries is a battery provided in a battery pack, a plurality of such battery packs are capable of being mounted on said electronic apparatus, and each of said battery packs has a memory for storing a residual electric power of a battery of an associated battery pack.

36. A processing ability alteration instruction apparatus according to claim 30, wherein each of said batteries is a battery provided in a battery pack, a

plurality of such battery packs are capable of being mounted on said electronic apparatus, and each of said battery packs has a memory for storing an association between voltage and supplying current of an associated 5 battery and a residual electric power of the battery, and wherein said residual electric power monitor section measures voltage and supplying current of the mounted batteries and determines a residual electric power of the batteries referring to said memories.

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37. A processing ability alteration instruction apparatus according to claim 31, wherein each of said batteries is a battery provided in a battery pack, a plurality of such battery packs are capable of being 15 mounted on said electronic apparatus, and each of said battery packs has a memory for storing an association between voltage and supplying current of an associated battery and a residual electric power of the battery, and wherein said residual electric power monitor section measures voltage and supplying current of the mounted batteries and determines a residual electric power of the batteries referring to said memories.

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38. A processing ability alteration instruction apparatus according to claim 32, wherein each of said batteries is a battery provided in a battery pack, a plurality of such battery packs are capable of being 25

mounted on said electronic apparatus, and each of said battery packs has a memory for storing an association between voltage and supplying current of an associated battery and a residual electric power of the battery, and

5 wherein said residual electric power monitor
section measures voltage and supplying current of the
mounted batteries and determines a residual electric power
of the batteries referring to said memories.

10 39. A processing ability alteration instruction apparatus according to claim 33, wherein each of said batteries is a battery provided in a battery pack, a plurality of such battery packs are capable of being mounted on said electronic apparatus, and each of said

15 battery packs has a memory for storing an association
between voltage and supplying current of an associated
battery and a residual electric power of the battery, and
wherein said residual electric power monitor
section measures voltage and supplying current of the
20 mounted batteries and determines a residual electric power
of the batteries referring to said memory.

40. A processing ability alteration instruction apparatus according to claim 25, wherein each of said batteries is a battery provided in a battery pack, a plurality of such battery packs are capable of being mounted on said electronic apparatus, and each of said

battery packs has a memory for storing an association between a residual electric power of an associated battery and a maximum chargeable current, and

5 wherein said processing ability determination section performs a determination referring to said memories.

41. A processing ability alteration instruction apparatus according to claim 28, wherein each of said batteries is a battery provided in a battery pack, a plurality of such battery packs are capable of being mounted on said electronic apparatus, and each of said battery packs has a memory for storing an association between a residual electric power of an associated battery and a maximum chargeable current, and

15 wherein said processing ability determination section performs a determination referring to said memories.

42. A processing ability alteration instruction apparatus according to claim 29, wherein each of said batteries is a battery provided in a battery pack, a plurality of such battery packs are capable of being mounted on said electronic apparatus, and each of said battery packs has a memory for storing an association between a residual electric power of an associated battery and a maximum chargeable current, and

25 wherein said processing ability determination section performs a determination referring to said memories.